

WHAT IS CLAIMED IS:

1. An information processing apparatus
comprising:

5 a central processing means capable of transferring
from a normal operation mode to a power saving mode and
returning to the power saving mode to the normal
operation mode;

10 a main memory means capable of transferring from a
normal operation mode to a power saving mode and
returning to the power saving mode to the normal
operation mode; and

15 a setting means for setting transfer information
of said main memory means from a normal operation mode
to a power saving mode,

wherein said central processing means executes a
power saving mode transfer command after the transfer
information is set by said setting means.

20 2. An information processing apparatus according
to claim 1, further comprising:

a detecting means for detecting that said central
processing means fetched the power saving mode transfer
command; and

25 a transfer control means for transferring said
main memory means to a power saving mode if said
detecting means detects that the power saving mode
transfer command is fetched after said setting means

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3. An information processing apparatus according to claim 1, further comprising:

5 a returning means for making said main memory
means return to a normal operation mode irrespective of
settings by said setting means, if said central
processing means detects an external interruption for
returning to a normal operation mode from a power
10 saving mode while said main memory means is in the
power saving mode.

4. An information processing apparatus according to claim 1, wherein the transfer information is a time taken to transfer to a power saving mode from a normal operation mode, and the information processing apparatus further comprises a transfer control means for controlling to transfer said main memory means to a power saving mode after a lapse of the set time of the transfer information.

5. An information processing apparatus according to claim 4, further comprising:

an instructing means for instructing a transfer to
25 the power saving mode,

wherein said transfer control means controls to transfer said main memory means to a power saving mode

after the lapse of the set time of the transfer information, in accordance with an instruction of said instructing means.

5 6. An information processing apparatus according
to claim 1, further comprising:

a notifying means for notifying that said central processing means was transferred to a power saving mode; and

10 a transfer control means for transferring said
main memory means to a power saving mode after the
transfer information is set by said setting means, in
response to a notice of said notifying means.

15 7. An information processing apparatus
comprising:

a central processing means having a normal operation mode and a power saving mode;

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a main memory means having a normal operation mode
20  and a power saving mode;

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a storage means for storing transfer information of said main memory means from a normal operation mode to a power saving mode;

a detecting means for detecting a power saving
25 mode transfer command sent to said central processing
means; and

a transfer control means for making said main

memory means transfer to a power saving mode from a normal operation mode in accordance with the transfer information stored in said storage means and a detection by said detecting means.

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8. An information processing apparatus according to claim 7, wherein said transfer control means supplies said main memory means with a predetermined signal to make said main memory means to transfer to a power saving mode from a normal operation mode.

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9. An information processing apparatus according to claim 7, further comprising:

a returning means for making said main memory means return to a normal operation mode, if said central processing means detects an external interruption for returning to a normal operation mode from a power saving mode while said main memory means is in the power saving mode.

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10. A power saving controlling method for an information processing apparatus having a central processing unit capable of transferring from a normal operation mode to a power saving mode and returning to the power saving mode to the normal operation mode and a main memory capable of transferring from a normal operation mode to a power saving mode and returning to

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saving mode while the main memory is in the power saving mode.

13. A power saving controlling method according to claim 10, wherein the transfer information is a time taken to transfer to a power saving mode from a normal operation mode, and the information processing method further comprises a transfer control step of controlling to transfer the main memory to a power saving mode after a lapse of the set time of the transfer information.

14. A power saving controlling method according to claim 13, further comprising:

15 an instructing step of instructing a transfer to
the power saving mode,

wherein said transfer control step controls to transfer the main memory to a power saving mode after the lapse of the set time of the transfer information, in accordance with an instruction of said instructing step.

15. A power saving controlling method according to claim 10, further comprising:

25 a notifying step of notifying that the central
processing unit was transferred to a power saving mode;
and

a transfer control step of transferring the main memory to a power saving mode after the transfer information is set by said setting step, in response to a notice of said notifying step.

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16. A power saving controlling method for an information processing apparatus having a central processing unit having a normal operation mode and a power saving mode and a main memory having a normal operation mode and a power saving mode, the method comprising:

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a storing step of storing transfer information of the main memory from a normal operation mode to a power saving mode;

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a detecting step of detecting a power saving mode transfer command sent to the central processing unit; and

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a transfer control step of making the main memory transfer to a power saving mode from a normal operation mode in accordance with the transfer information stored by said storing step and a detection by said detecting step.

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17. A power saving controlling method according to claim 16, wherein said transfer control step supplies the main memory with a predetermined signal to make the main memory to transfer to the power saving

mode from the normal operation mode.

18. A power saving controlling method according to claim 16, further comprising:

5 a returning step of for making the main memory return to a normal operation mode, if the central processing unit detects an external interruption for returning to the normal operation mode from the power saving mode while the main memory is in the power
10 saving mode.

19. A computer readable storage medium storing a program for controlling an information an information processing apparatus having a central processing unit
15 capable of transferring from a normal operation mode to a power saving mode and returning to the power saving mode to the normal operation mode and a main memory capable of transferring from a normal operation mode to a power saving mode and returning to the power saving
20 mode to the normal operation mode, the program comprising:

a setting step of setting transfer information of the main memory from a normal operation mode to a power saving mode; and

25 an executing step of the central processing unit executing a power saving mode transfer command after the transfer information is set by said setting step.

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20. A computer readable storage medium according to claim 19, wherein the program further comprises:

a detecting step of detecting that the central processing unit fetched the power saving mode transfer command; and

a transfer control step of transferring the main memory to a power saving mode if said detecting step detects that the power saving mode transfer command is fetched after said setting step sets the transfer information.

21. A computer readable storage medium according to claim 19, wherein the program further comprises:

a returning step of for making the main memory return to the normal operation mode irrespective of settings by said setting step, if the central processing unit detects an external interruption for returning to the normal operation mode from the power saving mode while the main memory is in the power saving mode.

22. A computer readable storage medium according to claim 19, wherein the transfer information is a time taken to transfer to a power saving mode from a normal operation mode, and the program further comprises a transfer control step of controlling to transfer the main memory to a power saving mode after a lapse of the

set time of the transfer information.

23. A computer readable storage medium according to claim 22, wherein the program further comprises:

5 an instructing step of instructing a transfer to the power saving mode,

wherein said transfer control step controls to transfer the main memory to a power saving mode after the lapse of the set time of the transfer information,
10 in accordance with an instruction of said instructing step.

24. A computer readable storage medium according to claim 19, wherein the program further comprises:

15 a notifying step of notifying that the central processing unit was transferred to a power saving mode; and

a transfer control step of transferring the main memory to a power saving mode after the transfer information is set by said setting step, in response to
20 a notice of said notifying step.

25. A computer readable storage medium storing a program for controlling an information processing
25 apparatus having a central processing unit having a normal operation mode and a power saving mode and a main memory having a normal operation mode and a power

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saving mode, the program comprising:

a storing step of storing transfer information of the main memory from a normal operation mode to a power saving mode;

5 a detecting step of detecting a power saving mode transfer command sent to the central processing unit; and

10 a transfer control step of making the main memory transfer to a power saving mode from a normal operation mode in accordance with the transfer information stored by said storing step and a detection by said detecting step.

15 26. A computer readable storage medium according to claim 25, wherein said transfer control step supplies the main memory with a predetermined signal to make the main memory to transfer to a power saving mode from a normal operation mode.

20 27. A computer readable storage medium according to claim 25, wherein the program further comprises:

25 a returning step of for making the main memory return to a normal operation mode, if the central processing unit detects an external interruption for returning to the normal operation mode from the power saving mode while the main memory is in the power saving mode.

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